Card 05.13 Combine harvester

THE RISK:

- *Overturning*
- *Catch and dragging* (by motion transmission devices and during unblocking operations)
- *Contact and shearing* (with moving devices and power take-offs)
- *Scalds* (high pressure liquid projection)
- *Fall* (while climbing into/getting out of a driver's seat/service seats and engine access and into the auger well)
- *Crushing* (coupling and separating towed cutter bar)
- *Slipping* (while climbing into the driver's seat)
- *Material projection* (next to straw distributors)
- *Running down* (during manoeuvres)
- *Fire*
- *Exhausting fumes inhalation*
- *Dust contact*
- *Hearing damages* (high noise level)
- *Musculoskeletal pains* (repetitive truck use and vibrations)

PRACTICAL AND OPERATING INDICATIONS:

Self-levelling combine harvester

La macchina deve essere munita di una struttura di protezione antiribaltamento (ROPS), che deve essere sottoposta ai controlli periodici (vedi libretto di uso e manutenzione).

Il sedile deve essere dotato di una cintura di sicurezza o di un dispositivo equivalente che mantenga il conducente stabile sulla postazione di guida.

Uncovered belt, bonnet without hinged cover

Per le macchine autolivellanti, rispettare le modalità e i tempi di manutenzione del sistema idraulico.

Assicurarsi che tutte le protezioni dei punti di collegamento siano integre.

Bonnet complete with hinged cover and hydraulic jack which helps locking the shelter open

Avvicinarsi per interventi di varia natura solo dopo aver spento il motore della macchina.

Controllare sempre i tubi e gli attacchi idraulici, che, in caso di deterioramento, potrebbero scoppiare e proiettare liquidi in pressione, ad alta temperatura, provocando ustioni. I tubi scol egati vanno comunque sistemati su appositi supporti.

Rod with lateral protection

Handrail and handles shall always provide three contact points to the operator and:

- the diameter section shall be contained between 25 and 35 mm;
- free space for hands around them shall be even to 50 mm at least;
- their lower extremity shall not overcome 1500 mm of height from the ground.

Handles shall be of 150 mm of length at least.

If the ladder leading to the driver's seat access is placed next to the wheel, it shall be provided with a protection preventing the foot to slip towards the wheel.

The ladder leading to the tractor driver's seat shall be free from any mud or oil remains.

Operator shall keep a safe distance from the cutting bar.

Operator shall be extremely careful while connecting or separating the towed bar.

Feeding and unloading augers shall be provided with fixed protection against accidental contacts

The machine shall be provided with a roll-over protection system (ROPS) which shall be checked periodically (see use and maintenance handbook).

The driver's seat shall be provided with a safety belt or an equivalent device which keeps the driver steady on it.

For self-levelling machines, it is compulsory to follow the procedures and maintenance time of the hydraulic system.

It is necessary to check if each connecting points protection is undamaged.

The operator shall go by the machine for maintenance/ settings only after having switched off the engine.

Linking with cardan joint

Hydraulic pipes support

Ladder leading to the driver's seat access with adequate protections

FURTHER INDICATIONS AND ADVICE

Auger with protection grid

Fire extinguisher next to the driver's seat

- The operator shall be very careful and shall follow the user's manual precautions during unblocking operations.
- It is necessary to check the wear and tear of the tyres and substitute them if they are worn out.
- It is advisable to avoid sudden changing of directions, especially while reversing and when the grain tank is loaded.
- It is advisable to avoid sharp braking.
- It is necessary to keep low gear in descent and avoid to put the engine into neutral.
- It is forbidden to take aboard the combine harvester other people if it is not authorized by the roadworthiness certificate.

SPECIFIC INDICATIONS FOR SELF-LEVELLING COMBINE HARVESTERS:

- It is compulsory to follow carefully the sloping and the nature of the ground, avoid working on slope superior to those fixed or that makes the machine leaning laterally. The operator shall prick up his/her ears to the maximum limit signal, avoid proceeding when it is surpassed and keeping in mind the levelling device has its reaction time.
- It is advisable to remember real ground conditions limit the theoretic values of affordable slopes with combine harvesters provided with self-levelling systems. Even on firm ground it is necessary to not go beyond 40% transverse inclination, whereas on longitudinal sense the operator shall not go beyond 30% inclination on rising and 10% inclination on sloping.
- It is necessary to carry out periodical maintenance on the manual levelling system to use in case of emergency.
- It is necessary to keep coupled brake pedals and in perfect efficiency to avoid hazardous skidding.